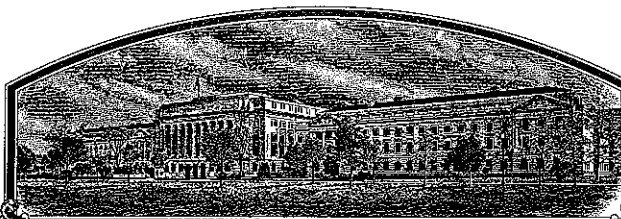


No.

200500022



THE UNITED STATES OF AMERICA

TO ALL TO WHOM THESE PRESENTS SHALL COME:

West Bred, LLC

Whereas, THERE HAS BEEN PRESENTED TO THE

Secretary of Agriculture

AN APPLICATION REQUESTING A CERTIFICATE OF PROTECTION FOR AN ALLEGED DISTINCT VARIETY OF SEXUALLY REPRODUCED, OR TUBER PROPAGATED PLANT, THE NAME AND DESCRIPTION OF WHICH ARE CONTAINED IN THE APPLICATION AND EXHIBITS, A COPY OF WHICH IS HEREUNTO ANNEXED AND MADE A PART HEREOF, AND THE VARIOUS REQUIREMENTS OF LAW IN SUCH CASES MADE AND PROVIDED HAVE BEEN COMPLIED WITH, AND THE TITLE THERETO IS, FROM THE RECORDS OF THE PLANT VARIETY PROTECTION OFFICE, IN THE APPLICANT(S) INDICATED IN THE SAID COPY, AND WHEREAS, UPON DUE EXAMINATION MADE, THE SAID APPLICANT(S) IS (ARE) ADJUDGED TO BE ENTITLED TO A CERTIFICATE OF PLANT VARIETY PROTECTION UNDER THE LAW.

NOW, THEREFORE, THIS CERTIFICATE OF PLANT VARIETY PROTECTION IS TO GRANT UNTO THE SAID APPLICANT(S) AND THE SUCCESSORS, HEIRS OR ASSIGNS OF THE SAID APPLICANT(S) FOR THE TERM OF TWENTY YEARS FROM THE DATE OF THIS GRANT, SUBJECT TO THE PAYMENT OF THE REQUIRED FEES AND PERIODIC REPURCHASEMENT OF VIABLE BASIC SEED OF THE VARIETY IN A PUBLIC REPOSITORY AS PROVIDED BY LAW, THE RIGHT TO EXCLUDE OTHERS FROM SELLING THE VARIETY, OR OFFERING IT FOR SALE, OR REPRODUCING IT, OR IMPORTING IT, OR EXPORTING IT, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSES, OR CONDITIONING IT FOR PROPAGATION, OR STOCKING IT FOR ANY OF THE ABOVE PURPOSES, OR USING IT IN PRODUCING A HYBRID OR DIFFERENT VARIETY THEREFROM, TO THE EXTENT PROVIDED IN THE PLANT VARIETY PROTECTION ACT. (84 STAT. 1542, AS AMENDED, 7 U.S.C. 2321 ET SEQ.)

WHEAT, COMMON

"Triple IV"

In Testimony Whereof, I have hereunto set my hand and caused the seal of the Plant Variety Protection Office to be affixed at the City of Washington, D.C. this twenty-fifth day of March, in the year two thousand and five.

Attest:

Commissioner
Plant Variety Protection Office
Agricultural Marketing Service

Secretary of Agriculture



U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY - PLANT VARIETY PROTECTION OFFICE

APPLICATION FOR PLANT VARIETY PROTECTION CERTIFICATE
(Instructions and information collection burden statement on reverse)

The following statements are made in accordance with the Privacy Act of 1974 (5 U.S.C. 552a) and the Paperwork Reduction Act (PRA) of 1995.

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). Information is held confidential until certificate is issued (7 U.S.C. 2426).

1. NAME OF OWNER WestBred, LLC		2. TEMPORARY DESIGNATION OR EXPERIMENTAL NAME BZ 996-444	3. VARIETY NAME Triple IV
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP Code, and Country) 8111 Timberline Drive Bozeman, MT 59718-8184		5. TELEPHONE (include area code) 406-587-1218	FOR OFFICIAL USE ONLY PVPO NUMBER 200500022 FILING DATE NOVEMBER 23, 2004
		6. FAX (include area code) 406-586-8247	
7. IF THE OWNER NAMED IS NOT A "PERSON", GIVE FORM OF ORGANIZATION (corporation, partnership, association, etc.) Limited Liability Co.	8. IF INCORPORATED, GIVE STATE OF INCORPORATION Arizona	9. DATE OF INCORPORATION Aug 4, 2003	
10. NAME AND ADDRESS OF OWNER REPRESENTATIVE(S) TO SERVE IN THIS APPLICATION. (First person listed will receive all papers) Dr. Dale R. Clark WestBred, LLC 8111 Timberline Dr. Bozeman, MT 59718-8184			F E E S R E C E I V E D FILING AND EXAMINATION FEES: \$ 3652.00 DATE 11/23/04 CERTIFICATION FEE: \$ 432.00 DATE 12/21/04
11. TELEPHONE (Include area code) 406-587-1218	12. FAX (Include area code) 406-586-8247	13. E-MAIL dclark@westbred.com	
14. CROP KIND (Common Name) wheat	16. FAMILY NAME (Botanical) Poaceae	18. DOES THE VARIETY CONTAIN ANY TRANSGENES? (OPTIONAL) <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF SO, PLEASE GIVE THE ASSIGNED USDA-APHIS REFERENCE NUMBER FOR THE APPROVED PETITION TO DEREGULATE THE GENETICALLY MODIFIED PLANT FOR COMMERCIALIZATION.	
15. GENUS AND SPECIES NAME OF CROP Triticum aestivum	17. IS THE VARIETY A FIRST GENERATION HYBRID? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO	20. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE SOLD AS A CLASS OF CERTIFIED SEED? (See Section 83(a) of the Plant Variety Protection Act) <input type="checkbox"/> YES (If "yes", answer items 21 and 22 below) <input checked="" type="checkbox"/> NO (If "no", go to item 23)	
19. CHECK APPROPRIATE BOX FOR EACH ATTACHMENT SUBMITTED (Follow instructions on reverse)		21. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF CLASSES? <input type="checkbox"/> YES <input type="checkbox"/> NO IF YES, WHICH CLASSES? <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED	
a. <input checked="" type="checkbox"/> Exhibit A. Origin and Breeding History of the Variety b. <input checked="" type="checkbox"/> Exhibit B. Statement of Distinctness c. <input checked="" type="checkbox"/> Exhibit C. Objective Description of Variety d. <input type="checkbox"/> Exhibit D. Additional Description of the Variety (Optional) e. <input checked="" type="checkbox"/> Exhibit E. Statement of the Basis of the Owner's Ownership f. <input checked="" type="checkbox"/> Voucher Sample (2,500 viable untreated seeds or, for tuber propagated varieties, verification that tissue culture will be deposited and maintained in an approved public repository) g. <input checked="" type="checkbox"/> Filing and Examination Fee (\$3,652), made payable to "Treasurer of the United States" (Mail to the Plant Variety Protection Office)		22. DOES THE OWNER SPECIFY THAT SEED OF THIS VARIETY BE LIMITED AS TO NUMBER OF GENERATIONS? <input type="checkbox"/> YES <input type="checkbox"/> NO IF YES, SPECIFY THE NUMBER 1,2,3, etc. FOR EACH CLASS. <input type="checkbox"/> FOUNDATION <input type="checkbox"/> REGISTERED <input type="checkbox"/> CERTIFIED (If additional explanation is necessary, please use the space indicated on the reverse.)	
23. HAS THE VARIETY (INCLUDING ANY HARVESTED MATERIAL) OR A HYBRID PRODUCED FROM THIS VARIETY BEEN SOLD, DISPOSED OF, TRANSFERRED, OR USED IN THE U. S. OR OTHER COUNTRIES? <input checked="" type="checkbox"/> YES <input type="checkbox"/> NO November, 2004 IF YES, YOU MUST PROVIDE THE DATE OF FIRST SALE, DISPOSITION, TRANSFER, OR USE FOR EACH COUNTRY AND THE CIRCUMSTANCES. (Please use space indicated on reverse.)		24. IS THE VARIETY OR ANY COMPONENT OF THE VARIETY PROTECTED BY INTELLECTUAL PROPERTY RIGHT (PLANT BREEDER'S RIGHT OR PATENT)? <input type="checkbox"/> YES <input checked="" type="checkbox"/> NO IF YES, PLEASE GIVE COUNTRY, DATE OF FILING OR ISSUANCE AND ASSIGNED REFERENCE NUMBER. (Please use space indicated on reverse.)	

25. The owners declare that a viable sample of basic seed of the variety has been furnished with application and will be replenished upon request in accordance with such regulations as may be applicable, or for a tuber propagated variety a tissue culture will be deposited in a public repository and maintained for the duration of the certificate.

The undersigned owner(s) is(are) the owner of this sexually reproduced or tuber propagated plant variety, and believe(s) that the variety is new, distinct, uniform, and stable as required in Section 42, and is entitled to protection under the provisions of Section 42 of the Plant Variety Protection Act.

Owner(s) is (are) informed that false representation herein can jeopardize protection and result in penalties.

SIGNATURE OF OWNER Dale R. Clark for WestBred, LLC		SIGNATURE OF OWNER Dr. Biggerstaff	
NAME (Please print or type) Dale R. Clark		NAME (Please print or type) Dan R. Biggerstaff	
CAPACITY OR TITLE Banley & Wheat Breeder	DATE Nov. 22, 2004	CAPACITY OR TITLE Vice President	DATE November 19, 2004

“Triple IV”
Hard Red Spring Wheat

16.a. Exhibit A. Origin and Breeding History

“Triple IV” (Exp. # BZ 996-444) is a hard red spring wheat that originated from the cross of “Fergus/Rambo//Fortuna/WestBred 906R”. The final cross was made by WestBred, LLC near Phoenix, AZ in 1994. The F1 plants were planted near Bozeman, MT, in the spring of 1994, and the F2 seed harvested in September 1994. The F2 seed was planted in November, 1994 near Phoenix, AZ. Individual F2 heads were harvested in April, 1995 and the F3 seed planted as individual 7’ rows near Bozeman, MT, in May, 1995. Individual heads were harvested from agronomically acceptable rows and the F4 seed was planted as 7’ single rows again near Bozeman in May, 1996. The F4 rows were observed for agronomic appearance and one of the rows was harvested and given the designation, BZ 996-444. Grain from the F4 row and subsequent generations, F5-F9, was tested for bread making quality by measuring test weight, percent protein, SDS sedimentation and the five-gram mixograph mix time and stability. Yield trials, along with quality analysis for hard red spring wheat, were conducted on the F4 thru F11 generations in WestBred, LLC, hard red spring wheat trials across Montana. The F5 and later generation yield trials in north central Montana indicated that this line exhibited a solid stem and was tolerant to the wheat stem sawfly. As this line was solid stem and awnless, BZ 996-444 was entered into forage trials in the San Joaquin Valley of California in November 1999. These trials demonstrated that BZ 996-444 was very early, with high forage potential, and would fit into a wheat forage/corn silage rotation. Continued testing of BZ 996-444 (2000-2003) confirmed that it is a good forage variety (Table 5). BZ 996-444 is also tolerant to the current races of stripe rust, leaf rust and powdery mildew found in the San Joaquin Valley. Table 1 provides agronomic performance from several locations. Table 2 provides quality data.

Forty individual heads were harvested from an F8 plot in September 2001 and planted as head rows near Yuma, AZ in the fall of 2001. In late April of 2002, uniform rows were harvested, bulked and the bulk seed planted in May, 2002 near Bozeman, MT. This seed was harvested in August, 2002 and designated Breeder seed. The Breeder seed was planted on approximately 40 acres near Lamoore, CA, in December, 2002. Production from this field was harvested in June,



WestBred, LLC, 8111 Timberline Dr., Bozeman, MT 59718



WestBred, LLC

November 29, 2004

RE: Application No. 200500022, Wheat, Common, 'Triple IV'

Dear Mr. Hermeling,

I have realized I used the wrong naming in the variety 'Rambo'. It should have read 'WestBred Rambo'.

WestBred Rambo was release by Western Plant Breeders in 1986 as a sawfly tolerant hard red spring wheat variety. WestBred Rambo occupied up to 29% of the spring wheat acreage in Montana in the early to mid 1990's. It was developed from a Male Sterile Facilitated Recurrent Selection Population. The basic male sterile population was originally obtained from Mr. Rex Thompson of the University of Arizona at the Mesa Experiment Station. Mr. Thompson constructed this spring MSFRSP (Wheat Germplasm CCA-1977) utilizing two male sterile lines from the variety 'Siete Cerros 66' and many public varieties and breeding lines as males. The following varieties and experimental lines were crossed onto male sterile plants in this population to develop the population from which WestBred Rambo was selected: Len, James, Olaf, Era, Butte, Waldron, Eureka, Chris, Solar, Kitt, Angus, Colamo, PR 2360, SD 8011, SD 8014, SD 8015, and SD 2868. (PR = Pioneer, SD = South Dakota).

Please let me know if you need more information.

Sincerely,

Dale R. Clark, Ph.D.
Barley and Wheat Breeder
dclark@westbred.com

“Triple IV”
Hard Red Spring Wheat

200500022

2003, as Foundation and Registered seed. Foundation and Registered seed was planted in the fall of 2003 in Arizona and California and seed from these fields was harvested in June, 2004 as Certified seed. At that time, the name “Triple IV” was chosen for the variety. The first unencumbered sale of “Triple IV” occurred November, 2004.

A variant that is similar to “Triple IV”, but is 4 to 8 inches taller, occurs at a frequency of up to .08% (8 per 10,000 plants). Also, a white seed variant may occur at a frequency of up to 0.1% (10/10,000 seed). Otherwise, “Triple IV” is a stable and uniform variety in appearance and performance across several generations (F4 to F11) and growing conditions.

16.b. Exhibit B. Statement of Distinctness

Triple IV is most similar to the variety Fortuna. However, Fortuna is long day sensitive and Triple IV is not. In the Southwestern states (e.g. Arizona) Fortuna will not head until around the first week of April (when planted in late November, or early December) whereas Triple IV will head around the 10th to the 15th of March, and in the Intermountain States (e.g. Montana) Triple IV is 3.5 days earlier heading than Fortuna when spring planted, (*t* test with 6 paired comparisons $P = 0.28$ that they are similar) Table 3. Also, Triple IV is approximately 6 inches shorter than Fortuna in the Intermountain states and 14 inches shorter than Fortuna when planted in the Southwest desert (*t* test with 11 paired comparisons $P = 2.65 \times 10^{-5}$ that they are similar) Table 4.

The above comparison, along with the complete Objective Description (Exhibit C) shows Triple IV to be a novel variety of hard red spring wheat.

Table 1. Agronomic data comparing Triple IV to check varieties in WestBred, LLC trials from 1997 - 2002 (12 locations).

<u>Variety</u>	<u>Heading Date (Julian)</u>	<u>Plant Ht. (inches)</u>	<u>Test Wt. lbs/bu</u>	<u>Protein %</u>	<u>SDS Sedimentation</u>	<u>Yield bu/ac</u>
Triple IV	186	32	59	15.1	125	64.5
Conan	188	30	59	14.4	129	63.2
Fortuna	200	38	60	14.3	118	60.8



"Triple IV" Hard Red Spring Wheat

Table 2. Milling and baking quality data comparing Triple IV to check varieties in WestBred, LLC 1999 trials.

<u>Variety</u>	<u>Flour</u>		<u>Mixograph</u>			<u>Bake Data</u>	
	<u>Protein</u>	<u>Yield</u>	<u>Abs%</u>	<u>Minutes</u>	<u>Tolerance</u>	<u>Abs.</u>	<u>Loaf vol. cc</u>
Triple IV	12.9	68.9	71.5	6.7	4.8	72.3	1125
Conan	12.9	65.1	71.8	7.6	5.0	72.6	1153
Fortuna	12.8	69.6	71.3	3.8	2.5	72.1	973

Table 3. Heading dates (Julian) of Triple IV compared to Fortuna.

<u>Year</u>	<u>Location</u>	<u>Triple IV</u>	<u>Fortuna</u>
1997	Bozeman, MT	183	187
1998	Bozeman, MT	184	188
1999	Bozeman, MT	192	195
2000	Bozeman, MT	178	182
1999	Yuma, AZ	70	89
2000	Yuma, AZ	75	101

Probably of being equal
P = 0.028

Table 4. Plant height (inches) of Triple IV compared to Fortuna.

<u>Year</u>	<u>Location</u>	<u>Triple IV</u>	<u>Fortuna</u>
1997	Bozeman, MT	38	44
	Conrad, MT	30	35
	Pendroy, MT	30	38
1998	Bozeman, MT	34	43
	Conrad, MT	26	36
	Pendroy, MT	35	44
	Denton, MT	28	34
	Bozeman, MT	33	40
1999	Conrad, MT	30	32
	Pendroy, MT	31	33
	Yuma, AZ	40	54
		32.3	39.4

Probability of them being equal
P = 2.65×10^{-5}



“Triple IV”
Hard Red Spring Wheat

Table 5. Data from WestBred, LLC 2004 California forage trial near Visalia, CA.

<u>ENTRY</u>	<u>Harvest Stage</u>	<u>Harvest Date</u>	<u>Yield tons/ac</u>	<u>% H2O</u>	<u>Yield t/ac DM</u>	<u>% Protein</u>	<u>Lbs of Milk/Ton</u>	<u>Lbs of Milk/Ac.</u>
Triple IV	med. Dough	12-Apr	21.04	64.5	7.47	8.4	2045	15275
Triple IV	boot-32 in.	9-Mar	23.39	78.9	4.94	10.7	2330	11499
Triticale 96	boot-26 in.	9-Mar	20.74	80.5	4.04	11.8	3015	12194
Summit	joint-22 in.	9-Mar	15.81	79.1	3.30	11.4	2521	8330



According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 2.5 hours per response, including the time for reviewing instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

The U.S. Department of Agriculture (USDA) prohibits discrimination in all its programs and activities on the basis of race, color, national origin, gender, religion, age, disability, sexual orientation, marital or family status, political beliefs, parental status, or protected genetic information. (Not all prohibited bases apply to all programs.) Persons with disabilities who require alternative means for communication of program information (Braille, large print, audiotape, etc.) should contact USDA's TARGET Center at 202-720-2600 (voice and TDD).

To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, DC 20250-9410 or call 202-720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE
SCIENCE AND TECHNOLOGY
PLANT VARIETY PROTECTION OFFICE
BELTSVILLE, MD 20705

Exhibit C

OBJECTIVE DESCRIPTION OF VARIETY
Wheat (*Triticum* spp.)

NAME OF APPLICANT (S) WestBred, LLC	TEMPORARY OR EXPERIMENTAL DESIGNATION BZ 996-444	VARIETY NAME Triple IV
ADDRESS (Street and No. or RD No., City, State, Zip Code and Country) 8111 Timberline Drive Bozeman, MT 59718-8184		FOR OFFICIAL USE ONLY PVPO NUMBER 200500022

PLEASE READ ALL INSTRUCTIONS CAREFULLY:

Place the appropriate number that describes the varietal character of this variety in the boxes below. Place a zero in the first box (e.g., or) when number is either 99 or less or 9 or less respectively. Data for quantitative plant characters should be based on a minimum of 100 plants. Comparative data should be determined from varieties entered in the same trial. Royal Horticultural Society or any recognized color standard may be used to determine plant colors; designate system used: _____ Please answer all questions for your variety; lack of response may delay progress of your application.

1. KIND:

- 1 = Common
2 = Durum
3 = Club
4 = Other (Specify) _____

2. VERNALIZATION:

- 1 = Spring
2 = Winter
3 = Other (Specify) _____

3. COLEOPTILE ANTHOCYANIN:

- 1 = Absent 2 = Present

4. JUVENILE PLANT GROWTH:

- 1 = Prostrate 2 = Semi-Erect 3 = Erect

5. PLANT COLOR: (boot stage)

- 1 = Yellow-Green
2 = Green
3 = Blue-Green

6. FLAG LEAF: (boot stage)

- 1 = Erect 2 = Recurved
 1 = Not Twisted 2 = Twisted
 1 = Wax Absent 2 = Wax Present

7. EAR EMERGENCE:

- Number of Days (Average)
 Number of Days Earlier Than * Fortuna
Same As * Zeke
 Number of Days Later Than * Tara-2000
*Relative to a Commercial Variety Grown in the Same Trial

8. ANTHHER COLOR:

- 1 = Yellow 2 = Purple

9. PLANT HEIGHT: (from soil to top of head, excluding awns)

071

cm (Average)

05

cm Taller Than

Conan

Same As

WestBred 906R

13

cm Shorter Than

Fortuna

10. STEM:

A. ANTHOCYANIN

1

1 = Absent 2 = Present

B. WAXY BLOOM

2

1 = Absent 2 = Present

C. HAIRINESS (last internode of rachis)

2

1 = Absent 2 = Present

D. INTERNODE

3

1 = Hollow

2 = Semi-Solid

3 = Solid

4

Number of Nodes

E. PEDUNCLE

1

1 = Erect

2 = Recurved

3 = Semi-Erect

28

cm Length

F. AURICLE

2

Anthocyanin

1 = Absent

2 = Present

1

Hair:

1 = Absent

2 = Present

11. HEAD: (at maturity)

A. DENSITY

2

1 = Lax

2 = Mid-dense (Laxidense)

3 = Dense

B. SHAPE

2

1 = Tapering

2 = Strap

3 = Clavate

4 = Other (Specify)

C. CURVATURE

2

1 = Erect

2 = Inclined

3 = Recurved

D. AWNEDNESS

2

1 = Awnless

2 = Apically Awnletted

3 = Awnletted

4 = Awned

12. GLUMES: (at maturity)

A. COLOR

1

1 = White

2 = Tan

3 = Other (Specify)

B. SHOULDER

4

1 = Wanting

2 = Oblique

3 = Rounded

4 = Square

5 = Elevated

6 = Apiculate

7 = Other (Specify)

C. SHOULDER WIDTH

3

1 = Narrow

2 = Medium

3 = Wide

D. BEAK

1

1 = Obtuse

2 = Acute

3 = Acuminate

E. BEAK WIDTH

2

1 = Narrow

2 = Medium

3 = Wide

F. GLUME LENGTH

3

1 = Short (ca. 7mm)

2 = Medium (ca. 8mm)

3 = Long (ca. 9mm)

G. WIDTH

3

1 = Narrow (ca. 3mm)

2 = Medium (ca. 3.5mm)

3 = Long (ca. 4mm)

wide

13. SEED:

A. SHAPE

- ☒ 3 1 = Ovate
2 = Oval
3 = Elliptical

B. CHEEK

- ☒ 2 1 = Rounded
2 = Angular

C. BRUSH

- ☒ 3 1 = Short
2 = Medium
3 = Long
- ☒ 1 1 = Not Collared
2 = Collared

D. CREASE

- ☒ 2 1 = Width 60% or less of Kernel
2 = Width 80% or less of Kernel
3 = Width Nearly as Wide as Kernel

- ☒ 2 1 = Depth 20% or less of Kernel
2 = Depth 35% or less of Kernel
3 = Depth 50% or less of Kernel

E. COLOR

- ☒ 3 1 = White
2 = Amber
3 = Red
4 = Other (Specify) _____

F. TEXTURE

- ☒ 1 1 = Hard
2 = Soft
3 = Other (Specify) _____

G. PHENOL REACTION

- ☒ 4 1 = Ivory 4 = Dark- Brown
2 = Fawn 5 = Black
3 = Light- Brown

H. SEED WEIGHT

- ☒ 40 g/1000 Seed (whole number only)

I. GERM SIZE

- ☒ 2 1 = Small
2 = Mid-Size
3 = Large

14. DISEASE: (0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Intermediate 4 = Tolerant)

PLEASE INDICATE THE SPECIFIC RACE OR STRAIN TESTED

- | | |
|--|--|
| <input checked="" type="checkbox"/> 0 Stem Rust (<i>Puccinia graminis</i> f. sp. <i>tritici</i>) | <input checked="" type="checkbox"/> 3 Leaf Rust (<i>Puccinia recondita</i> f. sp. <i>tritici</i>) |
| <input checked="" type="checkbox"/> 4 Stripe Rust (<i>Puccinia striiformis</i>) | <input checked="" type="checkbox"/> 0 Loose Smut (<i>Ustilago tritici</i>) |
| <input checked="" type="checkbox"/> 0 Tan Spot (<i>Pyrenophora tritici-repentis</i>) | <input checked="" type="checkbox"/> 0 Flag Smut (<i>Urocystis agropyri</i>) |
| <input checked="" type="checkbox"/> 0 Halo Spot (<i>Selenophoma donacis</i>) | <input checked="" type="checkbox"/> 0 Common Bunt (<i>Tilletia tritici</i> or <i>T. laevis</i>) |
| <input checked="" type="checkbox"/> 0 <i>Septoria nodorum</i> (Glume Blotch) | <input checked="" type="checkbox"/> 0 Dwarf Bunt (<i>Tilletia controversa</i>) |
| <input checked="" type="checkbox"/> 0 <i>Septoria avenae</i> (Speckled Leaf Disease) | <input checked="" type="checkbox"/> 0 Karnal Bunt (<i>Tilletia indica</i>) |
| <input checked="" type="checkbox"/> 0 <i>Septoria tritici</i> (Speckled Leaf Blotch) | <input checked="" type="checkbox"/> 0 Powdery Mildew (<i>Erysiphe graminis</i> f. sp. <i>tritici</i>) |
| <input checked="" type="checkbox"/> 0 Scab (<i>Fusarium</i> spp.) | <input checked="" type="checkbox"/> 0 "Snow Molds" |
| <input checked="" type="checkbox"/> 1 "Black Point" (Kernel Smudge) | <input checked="" type="checkbox"/> 0 Common Root Rot (<i>Fusarium</i> , <i>Cochliobolus</i> and <i>Bipolaris</i> spp.) |
| <input checked="" type="checkbox"/> 0 Barley Yellow Dwarf Virus (BYDV) | <input checked="" type="checkbox"/> 0 Rhizoctonia Root Rot (<i>Rhizoctonia solani</i>) |
| <input checked="" type="checkbox"/> 0 Soilborne Mosaic Virus (SBMV) | <input checked="" type="checkbox"/> 0 Black Chaff (<i>Xanthomonas campestris</i> pv. <i>translucens</i>) |
| <input checked="" type="checkbox"/> 0 Wheat Yellow (Spindle Streak) Mosaic Virus | <input checked="" type="checkbox"/> 0 Bacterial Leaf Blight (<i>Pseudomonas syringae</i> pv. <i>syringae</i>) |
| <input checked="" type="checkbox"/> 0 Wheat Streak Mosaic Virus (WSMV) | <input checked="" type="checkbox"/> 0 Other (Specify) _____ |
| <input checked="" type="checkbox"/> 0 Other (Specify) _____ | <input checked="" type="checkbox"/> 0 Other (Specify) _____ |
| <input checked="" type="checkbox"/> 0 Other (Specify) _____ | <input checked="" type="checkbox"/> 0 Other (Specify) _____ |
| <input checked="" type="checkbox"/> 0 Other (Specify) _____ | <input checked="" type="checkbox"/> 0 Other (Specify) _____ |

15. INSECT: (0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Intermediate 4 = Tolerant)

PLEASE SPECIFY BIOTYPE (where needed)

- | | |
|---|---|
| <input checked="" type="checkbox"/> 4 Hessian Fly (<i>Mayetiola destructor</i>) | <input checked="" type="checkbox"/> 0 Other (Specify) _____ |
| <input checked="" type="checkbox"/> 2 Stem Sawfly (<i>Cephus</i> spp.) | <input checked="" type="checkbox"/> 0 Other (Specify) _____ |
| <input checked="" type="checkbox"/> 0 Cereal Leaf Beetle (<i>Oulema melanopa</i>) | <input checked="" type="checkbox"/> 0 Other (Specify) _____ |

Triple IV

200500022

Exhibit C (Wheat)

15. INSECT: (continued) 0 = Not Tested 1 = Susceptible 2 = Resistant 3 = Intermediate 4 = Tolerant

PLEASE SPECIFY BIOTYPE (Where Needed)

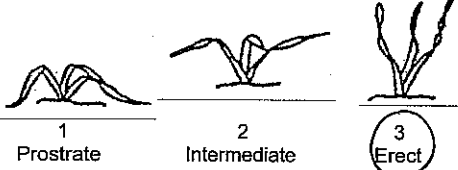
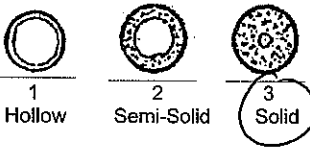
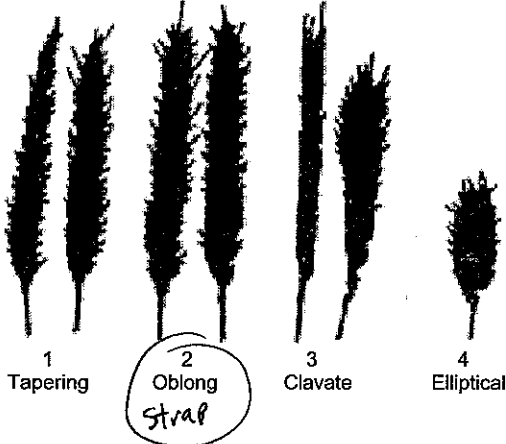

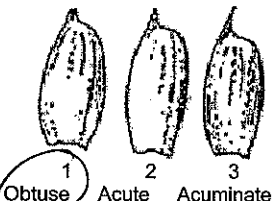
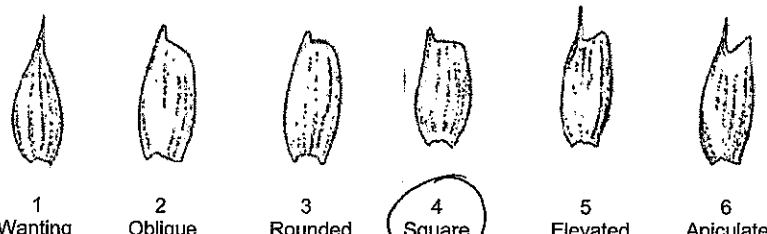
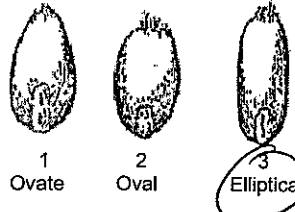
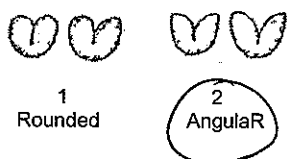
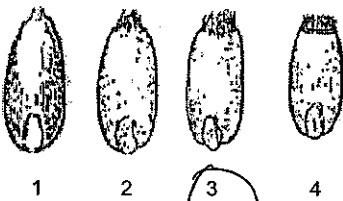
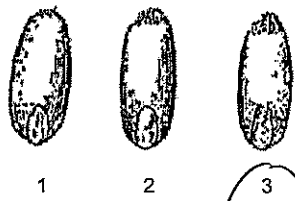

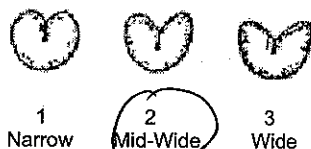
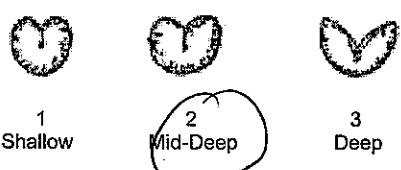
<input type="checkbox"/> Russian Aphid (<i>Diuraphis noxia</i>)	<input type="checkbox"/> Other (Specify) _____
<input type="checkbox"/> Greenbug (<i>Schizaphis graminum</i>)	<input type="checkbox"/> Other (Specify) _____
<input type="checkbox"/> Aphids	<input type="checkbox"/> Other (Specify) _____

16. ADDITIONAL INFORMATION ON ANY ITEM ABOVE, OR GENERAL COMMENTS:

10

WHEAT DESCRIPTOR ILLUSTRATIONS

Section Numbers Correspond to the Numbers of the Sections on the Form

<p>4. EARLY PLANT GROWTH HABIT:</p>  <p>1 Prostrate 2 Intermediate 3 Erect</p>	<p>10. STEM INTERNODE X-SECTION:</p>  <p>1 Hollow 2 Semi-Solid 3 Solid</p>	<p>11. SPIKE SHAPE:</p>  <p>1 Tapering 2 Oblong (strap) 3 Clavate 4 Elliptical</p>	
<p>11. AWNEDNESS:</p>  <p>1 Awnless 2 Apically Awned 3 Awnleted 4 Awned</p>	<p>12. BEAK SHAPE:</p>  <p>1 Obtuse 2 Acute 3 Acuminate</p>		
<p>12. SHOULDER SHAPE:</p>  <p>1 Wanting 2 Oblique 3 Rounded 4 Square 5 Elevated 6 Apiculate</p>			
<p>13. SEED SHAPE:</p>  <p>1 Ovate 2 Oval 3 Elliptical</p>	<p>13. CHEEK SHAPE:</p>  <p>1 Rounded 2 Angular</p>	<p>13. BRUSH SIZE</p>  <p>1 Small 2 Mid-Sized 3 Large 4 Collared</p>	<p>13. BRUSH HAIR LENGTH:</p>  <p>1 Short 2 Medium 3 Long</p>
<p>13. GERM (EMBRYO) SIZE:</p>  <p>1 Small 2 Mid-Sized 3 Large</p>	<p>13. SEED CREASE WIDTH:</p>  <p>1 Narrow 2 Mid-Wide 3 Wide</p>	<p>13. SEED CREASE DEPTH:</p>  <p>1 Shallow 2 Mid-Deep 3 Deep</p>	

U.S. DEPARTMENT OF AGRICULTURE
AGRICULTURAL MARKETING SERVICE

Application is required in order to determine if a plant variety protection certificate is to be issued (7 U.S.C. 2421). The information is held confidential until the certificate is issued (7 U.S.C. 2426).

EXHIBIT E
STATEMENT OF THE BASIS OF OWNERSHIP

1. NAME OF APPLICANT(S) WestBred, LLC	2. TEMPORARY DESIGNATION OR EXPERIMENTAL NUMBER BZ 996-444	3. VARIETY NAME Triple IV
4. ADDRESS (Street and No., or R.F.D. No., City, State, and ZIP, and Country) 8111 Timberline Drive Bozeman, MT 59718-8184	5. TELEPHONE (Include area code) (406) 587-1218	6. FAX (Include area code) (406) 586-8247
7. PVPO NUMBER 200500022		

8. Does the applicant own all rights to the variety? Mark an "X" in the appropriate block. If no, please explain. ☒ YES ☐ NO

9. Is the applicant (individual or company) a U.S. national or a U.S. based company? If no, give name of country. ☒ YES ☐ NO

10. Is the applicant the original owner? ☒ YES ☐ NO If no, please answer one of the following:

a. If the original rights to variety were owned by individual(s), is (are) the original owner(s) a U.S. National(s)?

☐ YES ☐ NO If no, give name of country

b. If the original rights to variety were owned by a company(ies), is (are) the original owner(s) a U.S. based company?

☐ YES ☐ NO If no, give name of country

11. Additional explanation on ownership (Trace ownership from original breeder to current owner. Use the reverse for extra space if needed):

PLEASE NOTE:

Plant variety protection can only be afforded to the owners (not licensees) who meet the following criteria:

1. If the rights to the variety are owned by the original breeder, that person must be a U.S. national, national of a UPOV member country, or national of a country which affords similar protection to nationals of the U.S. for the same genus and species.
2. If the rights to the variety are owned by the company which employed the original breeder(s), the company must be U.S. based, owned by nationals of a UPOV member country, or owned by nationals of a country which affords similar protection to nationals of the U.S. for the same genus and species.
3. If the applicant is an owner who is not the original owner, both the original owner and the applicant must meet one of the above criteria.

The original breeder/owner may be the individual or company who directed the final breeding. See Section 41(a)(2) of the Plant Variety Protection Act for definitions.

According to the Paperwork Reduction Act of 1995, an agency may not conduct or sponsor, and a person is not required to respond to a collection of information unless it displays a valid OMB control number. The valid OMB control number for this information collection is 0581-0055. The time required to complete this information collection is estimated to average 0.1 hour per response, including the time for reviewing the instructions, searching existing data sources, gathering and maintaining the data needed, and completing and reviewing the collection of information.

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To file a complaint of discrimination, write USDA, Director, Office of Civil Rights, Room 326-W, Whitten Building, 14th and Independence Avenue, SW, Washington, D.C. 20250-9410 or call (202) 720-5964 (voice and TDD). USDA is an equal opportunity provider and employer.